

DISQVETSKLY, T.Ya.

Combining mineral and organic fertilizers. Zemledelie 27 no.4:27-  
31 Ap '65. (MIRA 18:4)

1. Zaveduyushchiy otdelom agrokhimii Belotserkovskoy optytno-selektionskoy stantsii.

BISPEN, V.I., (Captain of the Medical service,) YAGODINSKIY, V.N. (Captain of the Medical Service) AND SVERDLOV, A.B., (Lieutenant Colonel of the Medical Service.)

"THE Epidemiological Effectiveness of A<sub>2</sub> Influenza Vaccine."

Voyenno-Meditsinskiy Zhurnal, No 12, December 1961, pp 62-73

SVERDLOV, A. B., podpolkovnik meditsinskoy sluzhby; BISPEN, V. I.,  
kapitan meditsinskoy sluzhby; YAGODINSKIY, V. N., kapitan  
meditsinskoy sluzhby

Epidemiological effectiveness of the A<sub>2</sub> influenza vaccine.  
Voen.-med. zhur. no.12:62 D '61. (MIRA 15:7)

(INFLUENZA)

BISPEK, V.I., kand.med.nauk; SATRAPINSKIY, F.V. BRYZGALOVA, L.L.

Medical service of troops in combat on the Volga. Voen. med. zhur.  
no.2:84-87 '63. (MIRA 17:9)

KOPALEYSHVILI, G.T., inzhener; BISSEYSHVILI, M.I., inzhener.

Wintertime road maintenance in high mountains. Avt.dor. 19 no.9:  
16-17 S '56.  
(MLRA 9:11)  
(Georgia--Mountain roads)

BISSENEK, N.

Rural construction workers of Latvia open new frontiers.  
Sel'. stroi. 16 no.9:30 S '61. (MIRA 14:9)

1. Nachal'nik Glavnogo upravleniya po stroitel'stvu v kolkhozakh  
pri Sovete Ministrov Latviyskoy SSR.  
(Latvia--Construction industry)

BISSENEK, Nikolay Yakovlevich[Bissenieks, N.]; KLYAVIN', E. [Klavins, E.],  
red.; KLYUMEL', A., tekhn. red.

[Plant corn in the fields of Latvia] Kukuruzu - na polia Latvii!  
Riga, Latviiskoe gos. izd-vo, 1959. 53 p. (MIRA 14:11)  
(Latvia--Corn (Maize))

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISSINGER, Eugeniusz, Lublin, ul. Dolna Panu Marii 21/2

Determination of drug quantities in compounds for children.  
Polaki tygod. lek. 10 no.1:21 3 Jan 55.

(CHEMOTHERAPY

compounds for child., determ. of drug quantities)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

9,4177  
26.24Y1

41091

S/058/62/000/008/124/134  
A160/A101

AUTHORS: Baczyński, A., Bissinger, J., Czajkowski, M., Walentynowicz, E.

TITLE: Photoresistors from CdS

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 40, abstract 8-3-79ts  
("Prace przemysł. inst. elektroniki", 1961, no. 1, 1961, v. 2,  
14 - 32, Polish; summaries in English and Russian)

TEXT: Presented is a review of the present state of the general theory of photoconductivity. A diagram of the energy levels of CdS is considered. Apart from donor and acceptor levels caused by impurities, there are other kinds of defects in polycrystalline layers, such as vacant lattice points. Therefore, such layers are not identical with single crystals in their properties. The technology of polycrystalline photoresistors developed at PIE (Poland) is described. Considered are the function of activators (Cu and Cl), the effect of the thermal treatment on their parameters - the integrated and spectral sensitivity, the relaxation time and the dark current. Photoresistors with an integrated sensitivity of 3,000 microamperes/lumen (FOK-1) and 20,000 microamperes/  
  
X

Card 1/2

Photoresistors from CdS

S/058/62/000/008/124/134  
A160/A101

lumen (FOK-2) were obtained. There are 37 references. [Zakład Fizyki Lamp Elektronowych, Poland].

[Abstracter's note: Complete translation]

N. S.

Card 2/2

40819

26.2420

P/053/62/000/004/005/005  
I010/I210

AUTHOR: Bissinger, Janusz

TITLE: —The influence of Cu<sup>++</sup> and Cl<sup>-</sup> ion concentration on photoconductivity of polycrystalline cadmium sulphide layers

PERIODICAL: Przeg<ład elektroniki, no. 4, 1962, 198-201

TEXT: The purpose of the investigation was to define the proper technological conditions for obtaining pressed and sintered polycrystalline cadmium sulphide layers of high photosensitivity. Such factors as temperature, time, and conditions of activation, pressing pressure, temperature, time and conditions of sintering of the pressed layers, were constant for this experiment. Measurements of the Cu<sup>++</sup> ions introduced (from  $10^{-4}$  to  $10^{-1}$  g/g) at a constant concentration of the Cl<sup>-</sup> ions Cu<sup>++</sup> concentration ( $10^{-3}$ – $10^{-1}$  g/g), at a constant ( $5 \times 10^{-4}$  g/g) are given. Measurements of conductivity, photoconductivity, spectral distribution of sensitivity, and integral sensitivity were made. It was shown that the best conditions are reached at the concentrations  $5 \times 10^{-4}$  g/g Cu<sup>++</sup> and  $10^{-2}$  g/g Cl<sup>-</sup>. These are the basic technological conditions for production of the photosensitive resistors FOK-1 (sensitivity about  $3000\mu\text{A}/\text{mv}$ ) and FOK-2 (about  $20,000\mu\text{A}/\text{mv}$ ). There are 6 figures.

ASSOCIATION: Przemysłowy Instytut Elektroniki (The Industrial Electronics Institute)

Card 1/1

41769

S/194/62/000/008/039/100 ..  
D295/D308

74160

AUTHORS: Bączyński, A., Bissinger, J., Czajkowski, M., and Walentynowicz, E.

TITLE: Cadmium-sulphide photo-resistors

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-3-79 ts (Prace przemysł. inst. elektroniki, v. 2, no. 1, 1961, 14-32 [Pol.; summaries in Eng. and Rus.])

TEXT: The present state of the general theory of photo-conductivity is reviewed. The energy level diagram of CdS is considered. In polycrystalline layers, in addition to donor and acceptor levels generated by impurities, there are defects of another type, for example vacant nodes in the lattice; therefore such layers are not identical with monocrystals in their properties. The technology of polycrystalline photo-resistors developed at PIE, Poland, is described; the role of activators (Cu and Cl) is considered as well as the influence of heat treatment on their parameters, the integral and spectral sensitivities, the relaxation time and dark current. Photo-Card 1/2

Cadmium-sulphide photo-resistors

S/194/62/000/008/039/100  
D295/D308

resistors have been obtained with integral sensitivity of 3,000  $\mu$ A/lumen (FOK-1) and 20,000  $\mu$ A/lumen (FOK-2). 37 references. (Zakład Fizyki Lamp Elektronowych, Poland). [Abstracter's note: Complete translation.] X

Card 2/2

BACZYNSKI, A.; BISSINGER, J.; CZAJKOWSKI, M.; WALENTYNOWICZ, E.

Photoactivation of cadmium sulfide. Bul Ac Pol mat  
12 no. 1: 67-72 '64 .

1. Department of Experimental Physics, N. Copernicus University, Torun, and Laboratory of Solid State Physics, Industrial Institute of Electronics, Torun. Presented by A. Jablonski.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BIST'AN, E.

COUNTRY	: Czechoslovakia	H-29
CATEGORY	:	
ABS. JOUR.	: AZKhim., No. 16 1959, No.	59104
AUTH.	: Savary, I., <u>Bist'an, E.</u> , Klejnek, J., and	*
IPGT.	: Not given	
TITLE	The Dependence of the Heat Resistance of Dielectrics on Their Chemical Structure	
ORIG. PUB.	Strojnoelektrotech, Casop, 8, No 1, 10-17 (1957)	
ABSTRACT	The authors review the data on the heat resistance (HR) of high-molecular-weight electric insulating materials and the relationship between HR and the chemical structure (type and strength of intra- and intermolecular bonds, shape of the molecule, degree of polymerization, orientation of the molecules). The processes taking place during heating (oxidation, degradation) are discussed. The special HR of polytetrafluoroethylene [teflon] and of polyorgano-	

CARD: 1/2 \*

COUNTRY	:	Czechoslovakia	n-29
CATEGORY	:		
AES. JCUR.	:	RZKhM., No. 16 1959, No.	59104
AUTHOR	:		
INST.	:		
TITLE	:		
ORIG. PUB.	:		
ABSTRACT	:	siloxanes is explained by the strength of the C-F and Si-O bonds. The bibliography lists 11 titles.	
		E. Tukachinskaya	
CARD:	2/2		

379

BISTAN, Ernest, inz.

Surface finishing of legs by PVC tubes. Drevo 18 no.9:338-340  
S '63.

1. Vyvoj nabytkarskeho priemyslu, n.p., Brno, zavod Bratislava.

BISTAN, Ernest, inz.

Production of molded elements of seats from thermoplastic materials by vacuum molding. Drevo 19 no.5:170-173 My '64.

1. Development of furniture Industry, Brno, Bratislava Plant.

BISTRICEANU, C.

Continuous improvement of the foddar base. Problems econ 16  
no.12:57-70 D '63.

BISTI, YE. G.

Fruit Culture

Planting period for fruit trees., Sad i og., no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

BISTI, Yevgeniy Georgiyevich; SAVZDARG, V.E., red.; GUREVICH, M.M.,  
tekhn.red.; ZUBRILINA, Z.P., tekhn.red.

[Orchards in flood lands] Plodovyi sad v poime. Moskva, Gos.  
izd-vo sel'khoz.lit-ry, 1958. 139 p. (MIRA 11:12)  
(Fruit culture)

BISTI, Yevgeniy Georgievich, kand. sel'khoz. nauk; VEN'YAMINOV, A.N.,  
doktor sel'khoz. nauk, red.; GRIGOROVICH, A.T., red.; SERADZSKAYA,  
P.G., tekhn. red.

[Planting orchards] Zakladka plodovogo sada. Voronezh, Voronezhskoe  
knizhnoe izd-vo, 1959. 42 p. (MIRA 14:16)  
(Fruit culture)

RUMANIA/Farm Animals - General Problems

Q

Abs Jour : Ref Zhur - Biol., No 15, 1958, 69238

Author : Baia, G., Ilchievici, C., Nica, V., Bistriceanu, C.

Inst :  
Title : Need for Consolidation of the Nutrition Base and  
Correct Feeding of Animals for Increase of the Stock and  
Growth of Its Productiveness

Orig Pub : Probl. zoothn., 1956, No 10, 5-12

Abstract : No abstract.

Card 1/1

BISTRICEANU, C.  
~~SURNAME (in caps)~~, Given Names

Country: Rumania

Academic Degrees: Engineer

Affiliation: Ministry of Agriculture (Ministerul Agriculturii)

Source: Bucharest, Probleme Zootehnice si Veterinare, No 4, 1961,  
pp 25-28.

Data: "For Increasing Production on the Natural Pastures."

BISTRICEANU, C.  
SURNAME (in caps); Given Names

Country: Romania

Academic Degrees: Engineer

Affiliation: --

Source: Bucharest, Probleme Zootehnice si Veterinare, No 6, 1961,  
pp 3-11.

Data: "Considerations on the Development of the Fodder Basis in  
Romania."

BISTRICEANU, C.

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees:

Affiliation:

Source: Bucharest, Probleme Zootehnice si Veterinare, Vol XI, No 10,  
Oct 1961, pp 11-16.

Data: "Vegetable Resources for the Coverage of the Protein Needs  
in the Raising of Animals."

Authors:

BISTRICEANU, C., -Engineer,- Department of Agriculture (Departamentul Agriculturii).

JIDUC, T., Department of State Farms (Departamentul G.A.S.).

RUMANIA

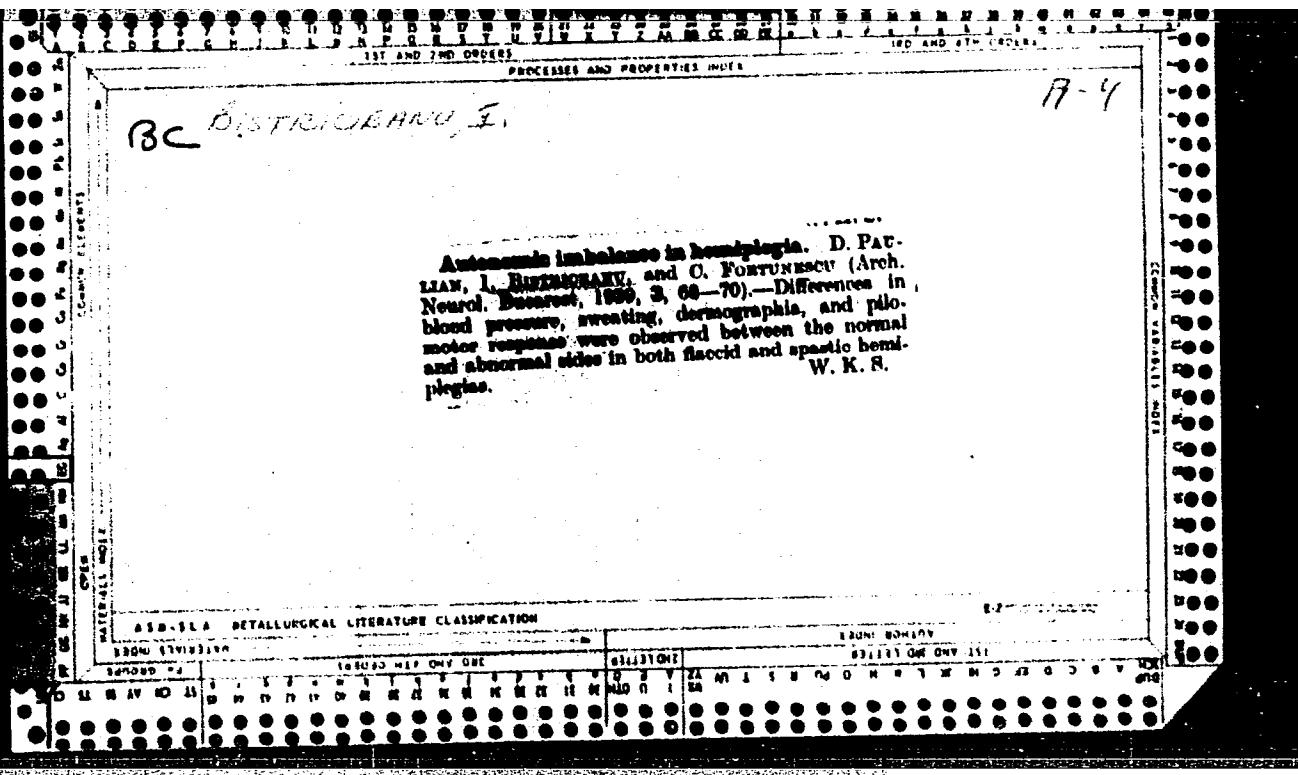
BISTRICEANU, C., Eng, of the Higher Council of Agriculture  
(Consiliul Superior al Agriculturii).

"Supplementary Quantities of Fodder of Double Cultivations."

Bucharest, Revista de Zootehnica si Medecina Veterinara, Vol 13,  
No 7, Jul 53, pp 19-21.

Abstract: Describes the economic importance of cultivating corn and other fodder plants in the stubble fields of such early crops as rye and wheat. Lists the agrotechnical measures to be taken, including proper amounts of fertilizers, depth of plowing, etc. The achievements of a number of collective farms are given as examples of the results that may be obtained. Contains 1 illustration.

1/1



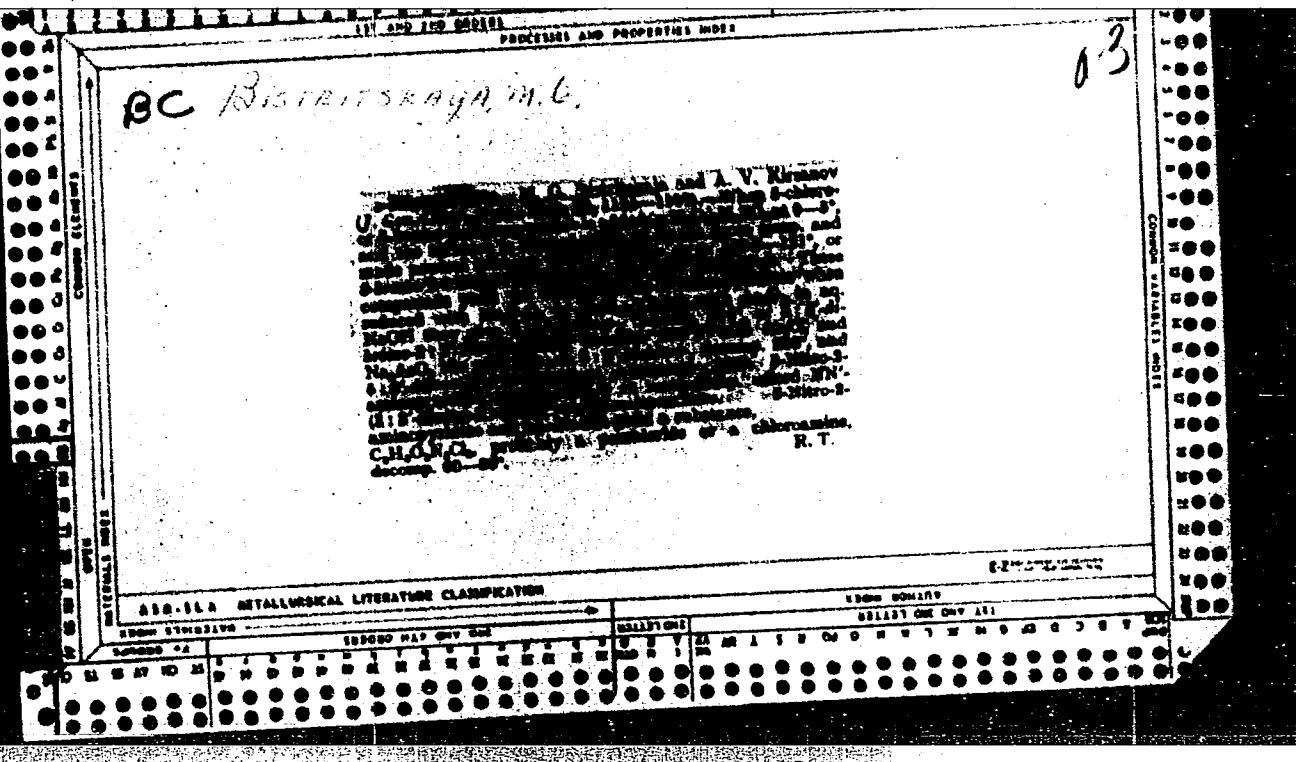
BOSTON MASS AND THE CITIES  
PENNSYLVANIA AND PENNSYLVANIA HILLS

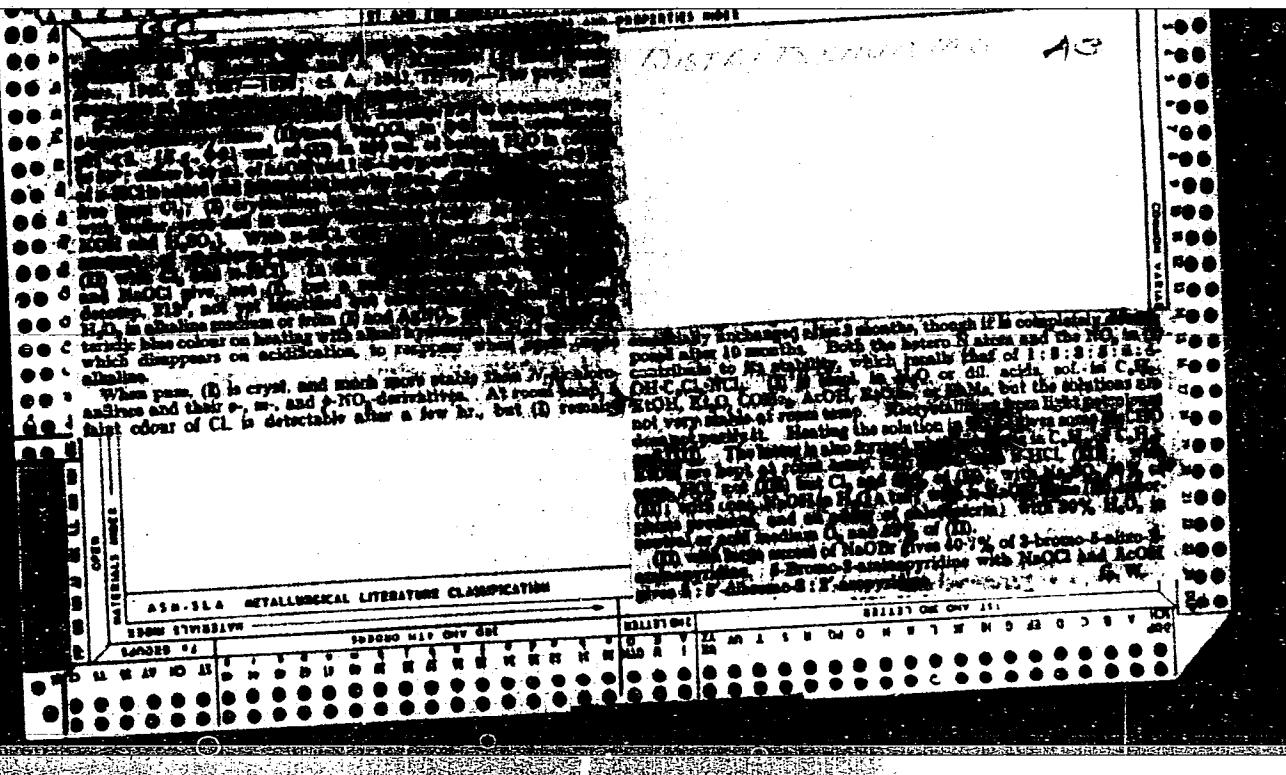
*ca*

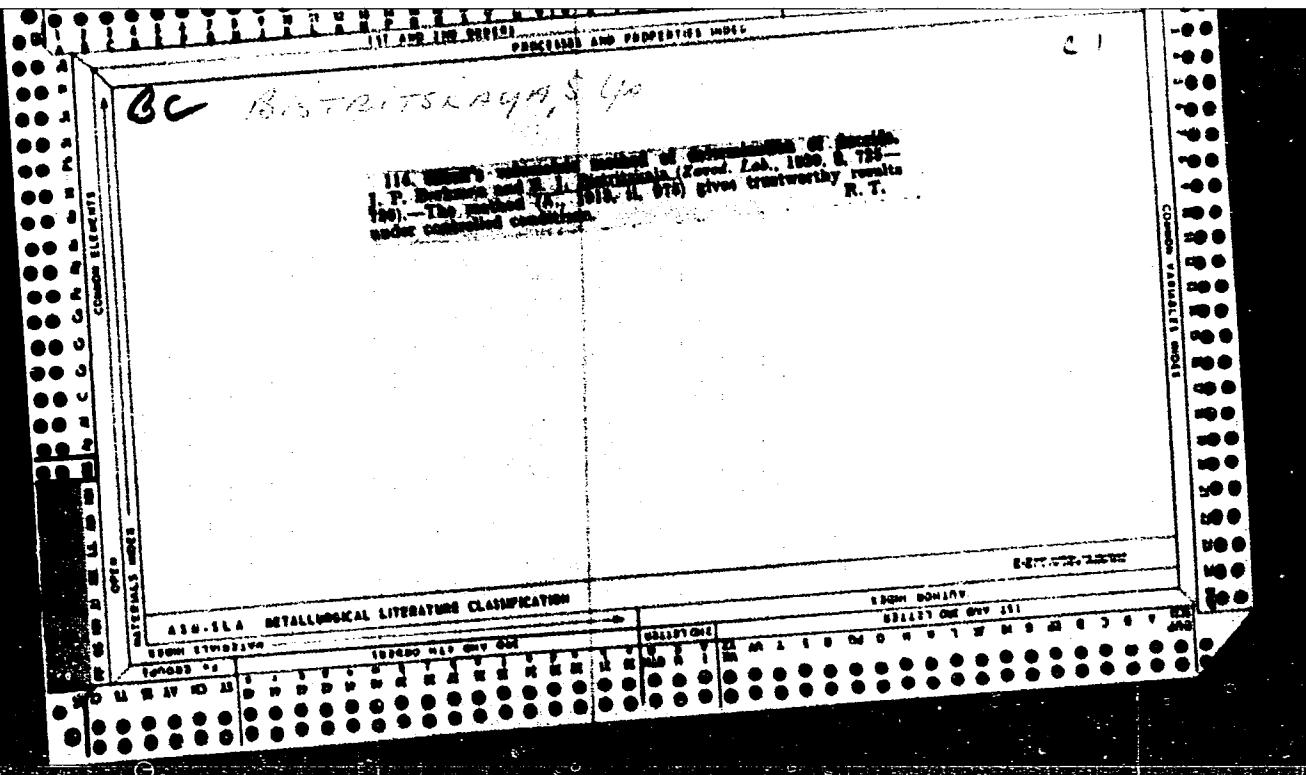
Determination of phosphoric acid in superphosphates and phosphate meal without the use of citric acid and ammonium molybdate. I. S. Telekov and S. Ya. Bistrinskaya. Ukrains. Khim. Zhur., 12, 335-40 (1957). To det. the combined  $\text{P}_2\text{O}_5$ , ext. a ground 2.5-g. sample with  $\text{H}_2\text{O}_2$ , heat with 100 ml. of  $\text{Ca}_3(\text{NO}_2)_6$  contg. 20.67 g. salt per l. (pH 8.7-9.0) at 80° for 20 min., dil. with  $\text{H}_2\text{O}$  to 250 ml. Treat a portion of this soln. with  $\text{NH}_3$  and, on warming, add 30-35 ml. alk.  $\text{MgCl}_2$  (35 g.  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ ) + 105 g.  $\text{NH}_4^+$  + 250 ml. 10%  $\text{NH}_3$  per l.). Filter off the ppt. of  $\text{MgNH}_4\text{PO}_4$ , dissolve in 0.1 N  $\text{HCl}$  and titrate with 0.1 N  $\text{NaOH}$ . For detn. of the total  $\text{P}_2\text{O}_5$ , warm a 5-g. portion with 10%  $\text{HCl}$ , bring to 50 ml. and treat a 25-ml. portion of it with 30-40 ml.  $\text{NH}_3$  tartrate prep'd. by dissolving 350 g. acid in 1 l. of 10%  $\text{NH}_3$ . After neutralization with  $\text{NH}_3$ , add 30-35 ml.  $\text{Mg salt}$ . The results agree well with those obtained by the method in which citric acid is used.

J. G. Tolpin

15







JANTEA, F., dr.; BAD, D., dr.; SOLOMON, E., dr.; MILOSESCU, P., dr.;  
BISTRICEANU, E., dr.

Contribution to the study of the incidence of enterococci  
in meat preparations. Microbiologia (Bucur) 8 no.4:341-344  
Jl-Ag '63.

1. Lucrare efectuata in Laboratorul de microbiologie alimentara,  
Catedra de igiena alimentara I.M.F., Bucuresti.  
(FOOD CONTAMINATION) (MEAT)  
(STREPTOCOCCUS FAECALIS)

JANTEA,F., dr.; MIHAIESCU, P., dr.; BAD, Doina, dr.; BISTRIGANU, Elena, dr.

Contribution to the investigation of the viability of salmonellae  
in hors d'oeuvres. Microbiologia (Bucur.) 9 no.4:313-320 Jl-Ag '64

1. Incrare efectuata in laboratorul de microbiologie alimentata,  
Catedra de igiena a alimentatiei, Institutul medico-farmaceutic,  
Bucuresti.

JANTEA, F., dr.; MILOSESCU, P., dr.; BISTRICEANU, Elena, dr.; BAD-OPRISESCU, Doina, dr.

Incidence of *B. cereus* in cooked foods. Microbiologia (Bucur)  
10 no.2:163-168 Mr-Ap'65.

1. Lucrare efectuata in Laboratorul de microbiologie alimentara,  
Catedra de igiena alimentatiei, Institutul medico-farmaceutic,  
Bucuresti.

BISTRITSKAYTE, A.P., (Vil'nyus)

Morphological characteristics of changes in blood vessels of the stomach (especially of veins) in peptic ulcer [with summary in English]. Arkh.pat. 20 no.3:54-59 '58. (MIRA 11:5)

1. Iz meditsinskogo fakul'teta Vil'nyusskogo gosudarstvennogo universiteta imeni Kapaukasa.

(PEPTIC ULCER, pathol.

gastric veins of lesser curvature of stomach, morphol. (Rus)  
(STOMACH, blood supply

veins of lesser curvature, eff. of peptic ulcer, morphol. (Rus)

BISTRON, St.

H-6

POLAND/Chemical Technology - Chemical Products and Their Application. Safety Engineering. Sanitary Engineering.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25635  
Author : Pawlikowski S., ~~Bistron St.~~  
Inst : -  
Title : Experiments on Precipitation of Some Industrial Aerosols  
Orig Pub : Przem. chem., 1957, 13, No 2, 90-99  
  
Abstract : Results of experiments on precipitation of particles from aerosols of  $\text{NH}_4\text{NO}_3$ ,  $\text{NH}_4\text{Cl}$ ,  $\text{H}_2\text{SO}_4$  by means of glass capillaries, porous glass Schott filter and a layer of sand. The precipitation is based upon the fact that increased velocity and pressure of the gas in the capillaries, or porous materials, result in increased number of collisions between aerosol particles and provide more favorable conditions for condensation of water vapor

Card 1/2

PAWLIKOWSKI, Stefan; ANIOL, Stanislaw; BISTRON, Stanislaw

Experiments of ammonia absorption of nitrogen oxides in  
semicommercial nozzle systems. Pt. 2. Przem chem 43  
no. 2: 80-83 F '64.

1. Politechnika Slaska, Gliwice.

PAWLICKOWSKI, Stefan, prof. dr.inz.; ANIOL, Stanislaw, mgr inz.;  
BISTRON, Stanislaw, dr. inz.; CHOMIAKOW, Stanislaw, mgr inz;  
SZYMONIK Stefan, mgr inz.

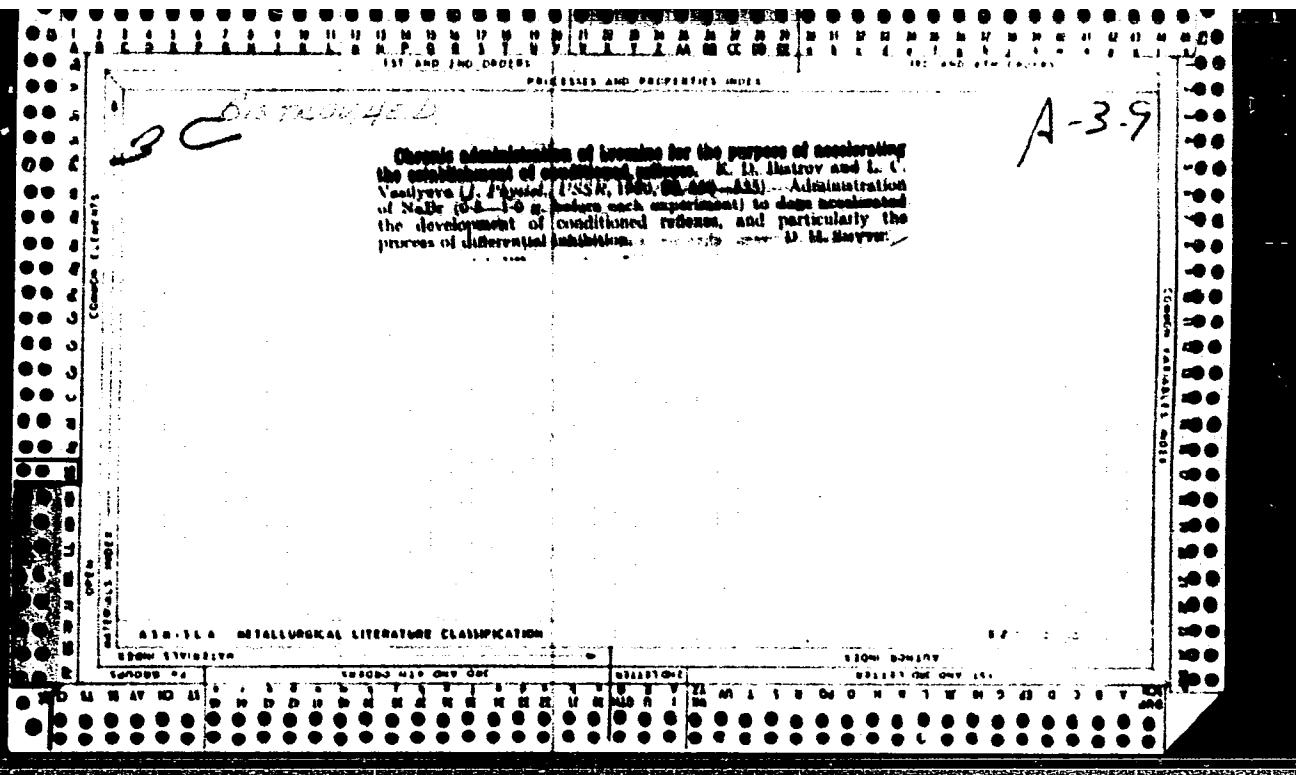
Storing and transportation of neutral ammonium carbonate.  
Chemik 16 no.7/8:187-189 Jl-Ag '63.

1. Politechnika Slaska, Gliwice.

BISTROV, V. M., TUTORSKYI, I. A. and SMELY, Z. I. (USSR)

V aimodeistvie karboksil soderzhashchikh butadien-stirolnykh  
kauchukov s poliamidami i epsilon-kaprolaktamom  
Interaction of carboxyl-containing butadiene-styrene rubbers with  
polyamides and epsilon-caprolactam  
IUPAC S III: 224-35

report presented at the Intl. Symposium on Macromolecular Chemistry, Moscow,  
14-18 June 1960.



3,2410

29371  
S/169/61/000/.../034/039  
A005/A130AUTHORS: Bievas, S., Lavaker, P.Dzh., Nilakantan, K.A., Shvedov, I.P.TITLE: The energy spectrum of heavy nuclei of primary cosmic radia-  
tionPERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1961, 12, abstract  
6G84. (Tr. Mezhdunar. konferentsii po kosmich. lucham. 1959,  
T. 3. Moscow, AN SSSR, 1960, 116-125)TEXT: The authors studied the energy spectrum of nuclei of group M  
( $6 \leq Z \leq 9$ ) and group H ( $Z \geq 10$ ) within the energy range 0.23~9 Bev/nucleon. The photoemulsion pile was exposed over Iowa (USA) on March 13, 1955 at an altitude of 34 km ( $6.1 \text{ g/cm}^2$ ). The energy of the charged particles was determined by the  $\delta$ -electron method, i.e., from the density, angle of emission and energy of  $\delta$ -electrons. The integral energy spectrum of the heavy primary nuclei has the form:  $N(>E) = C/(1+E)^m$ , where N is the number of particles whose kinetic energy (expressed in Bev/nucleon) is higher than E, C is a constant, and  $m = 1.65 \pm 0.30$  for group M and  $m = 1.78 \pm 0.35$  for group H. Since the values of the exponents coincide with

Card 1/2

The energy spectrum of heavy nuclei ...

29371  
S/169/61/000/  
A005/A130

in the limits of the experimental uncertainty, a general exponent  $m = 1.70 \pm 0.25$  was obtained for the heavy nuclei of group S ( $Z > 6$ ) within the energy range 0.23-9 Bev/nucleon. This value of  $m$  is close to the value obtained for  $\alpha$ -particles ( $m=1.5$ ). Therefore it is assumed that all components of the heavy nuclei of primary cosmic radiation have the same value of exponent  $m$ . The minimum energy of recorded group M nuclei, which characterizes the geomagnetic cutoff threshold at the given latitude, was equal to 230 Bev/nucleon. For the stream of heavy nuclei passing through the boundary of the atmosphere the following values were obtained:  $I(M) = 9.7 \text{ m}^{-2} \cdot \text{sec}^{-1} \cdot \text{steradian}^{-1}$ ,  $I(H) = (5.3 \pm 0.6) \text{ m}^{-2} \cdot \text{sec}^{-1} \cdot \text{steradian}^{-1}$ , and  $I(S) = (15.8 \pm 1.0) \text{ m}^{-2} \cdot \text{sec}^{-1} \cdot \text{steradian}^{-1}$ . The stream of group S nuclei was about 30% lower than normal. This decrease of the current of heavy nuclei is obviously connected with the large decrease of intensity of the Forbush type that was observed in the neutron component of cosmic rays at the earth's surface during the carrying out of the experiment.

N. Kaminer

[Abstractor's note: Complete translation.]

Card 2/2

L 8778-66 EWT(1)/T/FCS(k) WR  
ACC NR: AP5027620

SOURCE CODE: UR/0109/65/010/011/1977/1984

44  
42  
P

AUTHOR: Bisvanatk Das

ORG: Leningrad Electrotechnical Institute (Leningradskiy elektrotekhnicheskiy  
institut im. V. I. Lenina)

TITLE: Effect of random variations upon the maximum directivity of a system of  
symmetrical radiators

SOURCE: Radiotekhnika i elektronika, v. 10, no. 11, 1965, 1977-1984

TOPIC TAGS: antenna directivity, antenna radiation pattern

BB, H

ABSTRACT: The effect of random variations (spread) in excitation and in  
arrangement of orthogonal radiators is theoretically investigated in a general  
form, and a method is suggested for calculating such radiators. The orthogonaliza-  
tion is achieved through formation of linear combinations of radiation by means

Card 1/2

UDC: 621:396.674.012.12

Z

L 8778-66

ACC NR: AP5027620

of eigen vectors of a matrix of radiator mutual resistances. No high accuracy is required in the realization of excitation of an orthogonal-radiator system. As an example, a circular array is calculated whose elements have a broadside major radiation. The actual major radiation lies at an angle that depends on the accuracy of excitation and spacial deployment of the elements. Hence, the above accuracy is very important for high directivity of the antenna. The effect of random variations on the directivity increases with the number of array elements. "The author wishes to thank O. G. Vendik for his suggestion of the above problem and advice." Orig. art. has: 4 figures and 40 formulas.

SUB CODE: 09 / SUBM DATE: 28Jul64 / ORIG REF: 006 / OTH REF: 003

jw  
Card 2/2

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

L 13068-63 EWT(d)/FCC(w)/BDS AFFTC Pg-4 IJP(c)

ACCESSION NR: AP3000948

S/0140/63/000/003/0003/0014

AUTHOR: Barbashin, Ye. A.; Rieyarina, L. P. (Sverdlovsk)

57

TITLE: Stability of solutions of integro-differential equations

SOURCE: IVUZ. Matematika, no. 3, 1963, 3-14

16

TOPIC TAGS: integro-differential equation, stability, exponential law stability, constantly operating perturbation, dissipative stability

ABSTRACT: The authors give several definitions of stability of solutions of integro-differential equations and formulate various theorems yielding sufficient conditions for such stability. The definitions and a typical theorem are given in the enclosures. Orig. art. has: 84 formulas.

ASSOCIATION: none

SUBMITTED: 09Apr62 DATE ACQ: 12Jun63 ENCL: 03

SUB CODE: 00 NO REF Sov: 004 OTHER: 000

Cord 1/4/

ACCESSION NR: AR4039298

S/0044/64/000/003/B081/B081

SOURCE: Ref. zh. Matematika, Abs. 3B382

AUTHOR: Bisyarina, L. P.

TITLE: The existence of a periodic solution to one integro-differential equation

CITED SOURCE: Matem zap. Ural'skiy un-t, v. 4, no. 2, 1963, 18-27

TOPIC TAGS: periodic solution, integro-differential equation, Cauchy problem, continuous bounded periodic solution, Lipschitz condition, homogeneous equation, non-homogeneous equation, integral equation resolvent, resolvent norm, solution norm

TRANSLATION: The author considers the Cauchy problem  $\varphi(x, t_0) = \varphi_0(x)$  for the integro-differential equation

$$\frac{\partial \varphi(x, t)}{\partial t} - \lambda \varphi(x, t) = f(x, t, \varphi(x, t)) + \\ + \int H(x, s, t, \varphi(s, t)) ds,$$

Card 1/2

ACCESSION NR: AR4039298

where  $\lambda < 0$ ;  $f(\cdot)$  and  $H(\cdot)$  are given continuous, bounded, and periodic (with respect to  $t$ ) functions satisfying the Lipschitz condition with respect to  $\varphi$  in the domain  $D$ . Using the method of transferring from the homogeneous to a corresponding non-homogeneous equation in the same form, as explained in (RZh Mat, 1963, 12B359), the author establishes the following for the linear case of this problem: 1) the existence and uniqueness of the solution, 2) the explicit form of the solution; 3) equations which the resolvent of the constructed integral equation satisfy, 4) the value of the norm of this resolvent. For the non-linear case the author derives values for the norm of the solution and conditions for the existence of an asymptotically stable periodic solution. L. Krivoshim.

DATE ACQ: 22Apr64

SUB CODE: MA

ENCL: 00

Card 2/2

ACCESSION NR: AP4033965

s/0140/64/000/002/0031/0040

AUTHOR: Bisyarina, L. P. (Sverdlovsk)

TITLE: Stability of solutions of partial integrodifferential equations

SOURCE: IVUZ. Matematika, no. 2, 1964, 31-40

TOPIC TAGS: stability of solution, partial integrodifferential equation, exponential stability, dissipative stability, stable periodic solution

ABSTRACT: The author defines the concepts of exponential stability, dissipative stability, and stability for constantly acting perturbations bounded in mean and bounded in mean square, for the solution of special cases of

$$\frac{\partial U(x, t)}{\partial t} = \int_0^t H(x, s, t, U(s, t)) ds + \lambda \frac{\partial U(x, t)}{\partial x} + F(x, t, U(x, t)). \quad (1)$$

For example:

$$\frac{\partial U(x, t)}{\partial t} = \int_0^t K(x, s, t) U(s, t) ds + \int_0^t Z(x, s, t, U(s, t)) ds + \lambda \frac{\partial U(x, t)}{\partial x} + F(x, t, U(x, t)). \quad (2)$$

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ACCESSION NR: AP4033965

Definition: The zero solution of (2) is called exponentially stable if there exist constants  $B \geq 1$ ,  $\alpha > 0$ , such that from  $\|U(x, t_0)\| < \delta$  follows  $\|U(x, t)\| \leq B\delta e^{-\alpha(t-t_0)}$  for  $t > t_0$ , where  $\delta$  is any sufficiently small positive number. She gives various conditions for solutions to be stable in the above senses. Orig. art. has 14 formulas.

ASSOCIATION: none

SUBMITTED: 15Sep62

SUB CODE: MM

DATE ACQ: 07May64

NO REF Sov: 003

ENCL: 00

OTHER: 000

Card 2/2

~~BESKARINA, V. P.~~

Treatment of whooping cough and its complications with hyperimmune serum. Vopr. pediat. 18:3, 1950. p. 32-4

1. Of the Department of Faculty Pediatrics, Omsk Medical Institute imeni M. I. Kalinin (Head of Department--Prof. O. D. Sokolova-Ponomareva, Corresponding Member of the Academy of Medical Sciences).

GLML 19, 5, Nov., 1950

BISYARINA, V.P.

Results of activities of rheumatism-prevention centers in joint pediatric hospitals  
Pediatria, no. 4, 1952

BISYARINA, V. P.

USSR/Medicine - Hemorrhagic Fever Nov/Dec 92

"The Clinical Characteristics of Omsk Hemorrhagic Fever in Children," N.M. Tatarintsev, V.P. Bisyarina, R.M. Kverely, Faculty Therapeutic Clinic, Clinic of Children's Diseases, Omsk Med Inst imeni M.I. Kalinin

Pediat, No 6, pp 49-53

Authors give a brief summary of the history of a disease which was first observed in 1945 by physicians studying tularemia in the Omsk region. In 1946 an expedition dispatched by the Omsk Dept of Pub Health established this disease as a new and

(1)

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infectious condition which was provisionally named "spring and autumn fever." The Dermacentor pictus tick was found to be a vector of the disease. In 1947-48 research conducted by Prof M.P. Chumakov identified a filtrable virus as the causative agent. The disease was officially named Omsk hemorrhagic fever. The authors describe the clinical symptoms of this disease in children as an acute onset with atypical fever, hemorrhagic diathesis and specific changes in functioning of the kidneys, (hematuria in 7.8% of cases). Changes in the peripheral blood are characterized by leucopenia, thrombopenia, and slight anemia with a shift of the neutrophile count to the left in older children. The

(2)

256T47

authors offer no suggestions for the treatment of this disease but state that the prognosis is better for children, who recover from the disease more quickly than adults.

BISYARINA, V.P.

Condition of the cardiovascular system in acute nephritis in children  
Vop. pediat. i okhr. mat. i det. 20, no. 2, (1952)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

*Bisiarina, V.P.*

SOKOLOVA, T.S.

Review of O.D.Sokolova-Ponomareva's and V.P.Bisiarina's "Practical handbook on pharmacotherapy for pediatricians." Vest. AMN SSSR no.1:47-48 Ja-Mr '53.

(MLRA 6:7)

(Drugs) (Pediatrics) (Sokolova-Ponomareva, O.D.) (Bisiarina, V.P.)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISIARINA, V.

Bisiarina, V. Mircina, M.

"Results obtained by antirheumatic sections in unified children's hospitals. Tr. from the Russian." p. 49

(Analele Romano-Sovietice. Seria Pediatrie., Series a III-a, v. 6, no. 2, Mar./Apr. 1953, Bucuresti)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.

SOKOLOVA-PONOMAREVA, O.D., professor; BISYARINA, V.P. [authors]; SOKOLOVA, T. [reviewer].

"Practical manual on pharmacotherapy for the pediatrician." O.D.Sokolova-Ponomareva, V.P.Bisiarina. Reviewed by T.Sokolova. Pediatriia no.3:76-77 My-Je '53.

(Therapeutics) (Pediatrics) (Sokolova-Ponomareva, O.D.)  
(Bisiarina, V.P.)

*BISYARINA VALENTINA PAVLOVNA* Бисярина В.Н.  
SOKOLOVA-PONOMARENKO, Ol'ga Dmitriyevna, professor; *BISYARINA, Valentina*  
*Pavlovna*, dotsent; MYAZDRIKOVA, A.A., redaktor; SHORIN, V.A.,  
redaktor; GLUKHOYEDOVA, G.A., tekhnicheskiy redaktor

[Pediatrician's concise prescription manual] Kratkiy retsepturniy  
spravochnik detskogo vracha. 3-e izd., perer. i dop. Moskva, Medgiz,  
1954. 310 p. [Microfilm] (MLRA 8:3)  
(Medicine--Formulas, receipts, prescriptions)  
(Children--Diseases)

SOKOLOVA-PONOMAREVA, O.D., professor; BISYARINA, V.P., dotsent

Vascular permeability in rheumatism in children. Pediatrria no.5:  
3-6 S-0-154.  
(MLRA 7:12)

1. Is kafedry detskikh bolezney Omskogo meditsinskogo instituta  
imeni M.I.Kalinina (av. kafedroy chlen-korrespondent AMN SSSR  
prof. O.D.Sokolova-Ponomareva). 2. Chlen-korrespondent Akademii  
meditsinskikh nauk SSSR (for Sokolova-Ponomareva)

(CAPILLARY PERMEABILITY, in various diseases,  
rheum. in child.)

(RHEUMATISM, in infant and child,  
capillary permeability in)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

RECEIVED  
FEB 24 1988  
FBI



APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISYARINA, V.P.

GERSHENOVICH, R.S.

"Pediatrician's concise prescription manual." [Professor] O.D.  
Sokolova-Ponomareva, [dotsent] V.P.Bisiarina. Reviewed by R.S.  
Gershenovich. Pediatrilia no.3:86-87 My-Je '55(MLRA 8:10)  
(MEDICINE-FORMULAS, RECEIPTS, PRESCRIPTIONS)  
(PEDIATRICS) (SOKLOVA-PONOMAREVA, O.D.)  
(BISIARINA, V.P.)

USSR / Human and Animal Physiology. Vossols.

T

Abs Jour : Rof Zhur - Biol., No 15, 1958, No. 70193

Author : Bisyarina, V. P.

Inst : The All-Union Society of Podiatrists, Omsk Division

Title : Venous Pressure in Children with Various Forms of  
Pulmonary Tuberculosis

Orig Pub : Sb. nauchn. rabot Omskogo otd. Vses. o-va detsk. vrachey,  
1957, No 1, 63-69

Abstract : No abstract given

Card 1/1

62

BISYARINA, V.

"Rheumatic fever in children and the organization of its control"  
by N.P.Savvatimskia, Z.I.Edel'man. Reviewed by V.Bisierina.  
Pediatris no.2:90-91 F '57. (MIRA 10:10)  
(RHEUMATIC FEVER)  
(SAVVATIMSKAIA, N.P.) (EDEL'MAN, Z.I.)

USSR / Human and Animal Physiology. Vessels.

T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70202

Author : Bisyarina, V. P.

Inst : Omsk Medical Institute

Title : State of Vascular Permeability in Experimental Tuberculosis

Orig Pub : Tr. Omskogo med. in-ta, 1957, No 22, 93-103

Abstract : Pathomorphologic studies were carried out on the organs of guinea pigs from two to 30 days after infection with human tubercle bacilli. In the brain, lungs, myocardium, liver, spleen, kidneys, and lymph nodes there were, within two to three days after infection, distention of vessels, perivascular edema, loss of proteins into the extravascular fluids, migration of formed elements of the blood from the blood stream, fraying of the vessel walls, etc. In the pancreas, the small intestine, and the sex organs, there was also evidence of increased vascular permeability,

Card 1/2

66

BISYARINA, V. P.: Doc Med Sci (diss) -- "The state of the cardiovascular system in various forms of pulmonary tuberculosis in children". Omsk, 1958.  
18 pp (Omsk Med Inst im M. I. Kalinin), 250 copies (KL, No 6, 1959, 141)

SOKOLOVA-PONOMAREVA, Ol'ga Dmitriyevna, prof.; BISYARINA, Valentina Pavlovna, dotsent; MYAZDRIKOVA, Ye.I., red.; BEL'CHIKOVA, Yu.S., tekhn.red.

[Prescription manual for the pediatrician] Retsepturnyi spravochnik detskogo vracha. Izd.4., perer. i dop. Moskva. Gos.izd-vo med.lit-ry Medgiz, 1958. 339 p. (MIRA 13:1)  
(MEDICINE--FORMULAE, RECEIPTS, PRESCRIPTIONS)  
(PEDIATRICS)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

Bisyarina, V. P.  
BISYARINA, V.P. (Omsk)

"Treating children at the Zheleznovodsk health resort" by N.S.  
Kiseleva. Reviewed by V.P.Bisyarina. Vop. okh.mat. i det. 3 no.1:  
92-93 Ja-F '58. (MIRA 11:2)  
(ZHELEZNOVODSK--PHYSICAL THERAPY)  
(KISELEVVA, N.S.)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISYARINA, V. P.

BISYARINA, V.P., dots.

Electrocardiographic examination in various forms of pulmonary tuberculosis in children [with summary in English]. Pediatrja 36 no.1:23-29 Ja '58. (MIRA 11:2)

1. Iz kafedry detskih bolezney Omskogo meditsinskogo instituta imeni M.I.Kalinina (zav. - chlen-korrespondent AMN SSSR prof. O.D.Sokolova-Ponomareva)  
(ELECTROCARDIOGRAPHY) (TUBERCULOSIS)  
(CHILDREN--DISEASES)

BISYARINA, V.P.

On the 70th birthday and 45th year of medical, research, pedagogical,  
and public activities of Professor O.D. Sokolova-Ponomareva,  
corresponding member of the Academy of Medical Sciences of the  
U.S.S.R. Pediatrilia 36 no.4:81-82 Ap'58 (MIRA 11:5)  
(SOKOLOVA-PONOMAREVA, OL'GA DMITRIEVNA, 1888-)

BISYARINA, V.P., dots.

Permeability of blood vessels in children with pulmonary tuberculosis  
[with summary in French]. Probl.tub. 36 no.6:55-56 '58 (MIRA 11:10)

1. Iz kafedry detskikh bolezney (zav. - chlen-korrespondent AMN  
SSSR prof. O.D. Sokolova-Ponomareva) Omskogo meditsinskogo instituta  
imeni M.I. Kalinina:

(TUBERCULOSIS, PULMONARY, in inf. & child.)

capillary permeability (Bus)

(CAPILLARY, PERMEABILITY, in various dis.)

pulm. tuberc. in child (Bus))

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYARINA, V.P.

Report on the First Siberian Interprovince Conference of Pediatricians. Pediatrichia 36 no.11:90-92 N '58. (MIRA 12:8)  
(SIBERIA--PEDIATRICS--CONGRESSES)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

MARIUPOL'SKAYA, T.L., prof.; BISYARINA, V.P., dotsent

Development and duties of the Pediatric Department of Kalinin  
Medical Institute in Omsk. Trudy OMI no.25:65-75 '59.  
(MIRA 14:10)

(OMSK PEDIATRICS STUDY AND TEACHING)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYARINA, V.P. (Omsk)

Read this book! Zdorov'e 5 no.3:14-15 Mr '59. (MIRA 12:3)  
(RHEUMATIC FEVER)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYARINA, V.P.

"Pediatrician's manual on organization problems. Sov. zdrav. 18 no.2:  
52-54 '59.  
(PEDIATRICS)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISYARINA, V.P.

Result of work of sector pediatricians. Sov.zdrav. 18 no.6:  
10-14 '59. (MIRA 12:8)

1. Iz kafedry detskikh bolezney Omskogo meditsinskogo instituta  
imeni M.I.Kalinina i detskoy ob"edinennoy bol'nitsy No.1  
TSentral'nogo rayona Omska.  
(PEDIATRICS)

in Russia, activities of district pediatricians  
(Russia))

BISYARINA, V.P., dotsent

Achievements in the study of regional child pathology. *Pediatriia*  
37 no.6:67-70 Je '59. (MIRA 12:9)

1. Iz kafedry detskikh bolezney (zav. - dotsent V.P.Bisyarina)  
Omskogo meditsinskogo instituta imeni M.I.Kalinina.  
(*PEDIATRIC DISEASES, epidemiology,*  
in Russia (Eng))

BISYARINA, V.P., dotsent; SAVCHENKO, V.A.; KHLYNOVA, Z.N.; FEDINA, Ye.A.; DVORTSOVA, Z.I.; GLADYSHEVA, A.M.

Treatment and prophylaxis of rickets in children by massive doses  
of vitamin D at a district medical center. Vop. okh. mat. i det. 4  
no.6:64-67 N-D '59. (MIRA 13:4)

1. Iz kafedry detskih bolezney Omskogo meditsinskogo instituta  
imeni M.I. Kalinina i Detskoy gorodskoy klinicheskoy bol'nitsy.  
(VITAMINS--D) (RICKETS)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

SOKOLOVA-PONOMAREVA, O.D.; BISYARINA, V.P.

Vascular permeability in some children's diseases<sup>1</sup> Vop. 6kh. mat.  
i det. 5 no.6:23-24 N-D' 60. (MIRA 13:12)  
(CAPILLARIES—PERMEABILITY) (CHILDREN—DISEASES)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISYARINA, V.P.; SAVCHENKO, V.A. (Omsk)

Work practice of the antirheumatic section in a pediatric polyclinic.  
Sov. zdrav. 19 no.6:60-62 '60. (MIRA 13:9)

1. Iz kafedra detakikh bolezney Omskogo meditsinskogo instituta  
im. M.I.Kalinina i ob"yedinennoy detskoj klinicheskoy bol'nitsy  
No. 1.

(RHEUMATIC FEVER)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYARINA, V.P., prof.

Meeting the future. Zdorov'e 7 no.12:3-4 D '61.  
(CHILDREN-CARE AND HYGIENE)

(MIRA 14:12)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISYARINA, V.P.

Apropos of Professor A.T. Petriaeva's article, "Some controversial  
questions in contemporary pediatrics." Pediatrilia no.7:67-71 '62.  
(MIRA 15:12)

(PEDIATRICS) (PETRIAEVA, A.T.)

BISYARINA, V.P.; KOLESNIKOVA, M.A.

Dynamics of tuberculosis incidence and rate of infection  
in young children. Probl. tub. no.8;3-6'62. (MIRA 16:9)

1. Iz kafedry detskikh bolezney Omskogo meditsinskogo instituta imeni M.I.Kalinina i Detskoy klinicheskoy bol'nitsy no.2.,  
Omsk.

(TUBERCULOSIS) (CHILDREN--DISEASES)

BISYARINA, V.P.; KOZLOVA, T.N.

Importance of a comparative analysis of polyclinic and clinical diagnoses in a consolidated pediatric hospital. Zdrav. Ros. Feder. 6 no.2:23-27 F '62. (MIRA 15:3)

1. Iz kafedry detskikh bolezney Omskogo meditsinskogo instituta imeni M.I. Kalinina i Detskoy ob'yedinennoy bol'nitsy No.1 TSentral'nogo rayona Omska.  
(CHILDREN--HOSPITALS)  
(DIAGNOSIS)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYARINA, V.P., prof.

Cholecystitis in children. Zdorov'e 8 no.4:22-23 Ap '62.

(MIRA 15:4)

(GALL BLADDER—DISEASES) (CHILDREN—DISEASES)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYARINA, V.P., prof. (Omsk)

Chorea. Zdarov'e no.2&18-19 F '63.  
(CHOREA)

(MIRA 1613)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

BISYARINA, V.P., prof.

Characteristics of the care and feeding of a premature infant.  
Fet'd. i akush. 28 no.5: 32-36 My'63. (MIRA 16:7)

I. Zaveduyushchaya kafedroy detskikh bolezney Omskogo meditsinskogo instituta imeni Kalinina.  
(INFANTS (PREMATURE))

BISYARINA, V.P.

"Antituberculous vaccination of children and juveniles" by  
K.P. Berkos. Reviewed by V.P. Bisiarina. *Pediatria* 38 no.4:  
87-89 Apr. '60. (MIRA 16:7)

(TUBERCULOSIS—PREVENTIVE INOCULATION)  
(BERKOS, K.P.)

SOKOLOVA-PONOMAREVA, Ol'ga Dmitriyevna; BISYARINA, Valentina  
Pavlovna, prof.; SOROKO, Ya.I., red.; ATROUSHCHENKO,  
L.Ye., tekhn. red.

[Heart of the child] Serdtse rebenka. Moskva, Izd-vo  
"Znanie," 1963. 46 p. (Novoe v zhizni, nauke, tekhnike.  
VIII Seriia: Biologija i meditsina, no.23) (MIRA 17:1)

1. Deystvitel'nyy chlen AMN SSSR (for Sokolova-Ponomareva).



BISYARINA, V.P.

Age-related characteristics of changes in vascular permeability in experimental tuberculosis. Probl. tuberk. 41 no.4: 60-63 '63  
(MIRA 17:2)

1. Iz kafedry detskikh bolezney (zav. - prof. V.P.Bisyarina) Omskogo meditsinskogo institutaimeni M.I.Kalinina.

BISYARINA, V.P.

Improving the qualifications of section pediatricians in general hospital conditions. Vop. okhr. materin. dets. 8 no.1:  
80-83 '63 (MIRA 17:2)

1. Iz kafedry detskikh bolezney Omskogo meditsinskogo instituta imeni M.I.Kalinina (zav. - prof. V.P.Bisyarina).

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2

BISYULINA, E. D.

26285 Dopolneniye k flore akonitov SSSR. Botan. Zhurnal (Akad nauk ukr. SSR, in-t botaniki), T VI, No. 2, 1949, s 56-62 -- na ukr. yazy--rezyume na rus. yazy--Bibliogr: 9 nazv.

SO: LETOPIS' NO. 35, 1949

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410016-2"

SZABOLCSI, Gertrude; BISZKU, Etelka; SAGÓ, M.

Studies on D-glyceraldehyde-3-phosphate dehydrogenase. XVI. On the mechanism of sulphydryl group blocking in PGAD. Acta physiol. hung 17 no.2:183-193 '60.

1. Institute of Biochemistry of the Hungarian Academy of Sciences,  
Budapest.

(DEHYDROGENASES chem.)  
(SULPHYDRYL COMPOUNDS chem.)

L 1984-66

ACCESSION NR: AT5024292

HU/2505/64/025/002/0149/0159

AUTHOR: Szabolcsi, Gertrude; Boross, Laszlo; Biszku, Etelka

TITLE: Secondary reactions following blocking of enzyme SH-groups

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 25, no. 2, 1964,  
149-159

TOPIC TAGS: enzyme, biochemistry

ABSTRACT:

English article, authors' English summary modified. It has been shown that the increase in digestibility following mercaptidation of the reactive and masked SH groups of aldolase follows an exponential curve with inflection points reflecting different conformational states of the protein. 2. The distribution of the mercury reagent between the SH groups of aldolase of the same average reactivity is statistical. Despite the structural changes induced by the blocking of the SH groups, the statistical distribution remains unchanged during incubation, and mercaptidated aldolase

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B41

Card 1/2

L 1984-66

ACCESSION NR: AT5024292

does not undergo "disproportionation" as does mercaptidated GAPD. 3. The fate of the PCMB-treated enzyme molecules is discussed in relation to the differences in structure and motility of the enzymes.

"The authors wish to express their sincere thanks to Prof. F. B. Straub for valuable discussions. Thanks are due to Miss M. Vas and Miss M. Halacsy for helpful technical assistance." Orig. art. has: 2 formulas, 4 graphs.

ASSOCIATION: Institute of Biochemistry, Hungarian Academy of Sciences, Budapest

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF Sov: 001

OTHER: 025

JPRS

Card 2/2 DP

L 1985-66

ACCESSION NR: AT5024293

HU/2505/64/025/002/0161/0167

AUTHOR: Biszku, Etelka; Boross, Laszlo; Szabolcsi, Gertrude

TITLE: Formation of a partially active aldolase by trypsin digestion

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 25, no. 2, 1964,  
161-167

TOPIC TAGS: biochemistry, enzyme, digestion

ABSTRACT: [English article, authors' English summary modified] The digestion of enzymatically fully-active aldolase-(SIIg)<sub>10</sub> with small amounts of trypsin results in the formation of a product with high molecular weight which retains about 50 per cent of the original enzymatic activity. The digestion product is different from the undigested enzyme insofar as it has a reduced susceptibility to trypsin and an increased levorotation. Since the  $K_m$  value of hexose diphosphate remains unchanged, it is supposed that the catalytic site of the enzyme is affected during digestion.

Card 1/2

L 1985-66

ACCESSION NF: AT5024293

"The authors are indebted to Prof. F. B. Straub for his interest in this study and for valuable discussions. Thanks are due to Dr. P. Elodi for the optical rotation measurements, to Mr. P. Zavodszky for the sedimentation constant determination, and to Miss M. Vas and Mrs. G. Kerese for excellent technical assistance." Orig. art. has: 4 graphs.

ASSOCIATION: Institute of Biochemistry, Hungarian Academy of Sciences, Budapest

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

MR REF Sov: 000

OTHER: 015

JPRS

Card 2/2 JF

L 1986-66

ACCESSION NR: AT5024294

HU/2505/64/025/002/0169/0175

AUTHOR: Biszku, Etalka; Szabolcsi, Gertrude

TITLE: Kinetic studies of the formation of partially active aldolase upon trypsin digestion

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 25, no.2, 1964, 169-175

TOPIC TAGS: biochemistry, digestion, protein, enzyme

ABSTRACT: / English article, authors' English summary modified /L Enzymatically fully-active aldolase-(SHg)<sub>10</sub> undergoes limited proteolysis when exposed to the action of small amounts of trypsin. In the course of digestion, a high molecular weight product is formed (aldolase-T) following splitting of 21 peptide linkages per mole of protein. Aldolase-T retains about 60 per cent of the original enzymatic activity. 2. Kinetic analysis revealed that the above process proceeds in two steps. The fission of 12 rapidly broken peptide linkages gives rise to a product with 50 per cent aldolase activity

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which is already more resistant to the action of trypsin than the original enzyme but can be digested slowly. The slow breakage of an additional 9 peptide linkages leads to the formation of the product called aldolase-T. 3. The data suggest that, during the digestion of aldolase-(SHg)10, a group of damaged proteins with closely related secondary structures are formed which differ in primary structure and retain part of the original aldolase activity. The most stable and most trypsin-resistant among them is aldolase-T. "The authors are indebted to Prof. F. B. Straub for valuable discussions. Thanks are due to Miss. M. Vas for excellent technical assistance." Orig. art. has: 2 formulas, 2 graphs.

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